

ABSTRACT OF THE DISCLOSURE

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An object of the present invention is to provide a production process for methanol in which a distillation system is reduced in a size by removing efficiently heat generated in a methanol synthesis reaction and inhibiting by-products from being formed. The present invention provides a production process for methanol comprising a synthetic gas production step in which hydrocarbon is reacted with steam to generate synthetic gas comprising main components of hydrogen, carbon monoxide and carbon dioxide, a methanol synthesis step in which the synthetic gas described above is reacted on a methanol synthesis catalyst and resulting crude methanol is recovered in the form of liquid and a distillation step in which recovered crude methanol described above is distilled to be separated into waste water containing low boiling organic compounds and high boiling organic compounds and refined methanol, wherein a reactor having a specific structure is used in the methanol synthesis step described above.